

illustrative of the outside shape of a digital camera with the inventive optical path-bending zoom optical system built therein.

Fig. 27 is a rear perspective schematic of the digital camera of Fig. 26.

Fig. 28 is a sectional schematic of the digital camera of Fig. 26.

Fig. 29 is a front perspective view of a personal computer in use, in which the inventive optical path-bending zoom optical system is incorporated in the form of an objective optical system.

Fig. 30 is a sectional view of the phototaking optical system in the personal computer.

Fig. ~~32~~³¹ is illustrative of the state of Fig. 29.

Figs. 32(a) and 32(b) are a front and a side view of the cellular phone in which the inventive optical path-bending zoom optical system is incorporated in the form of an objective optical system, and Fig. 32(c) is a sectional view of the phototaking optical system therein.

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DESCRIPTION OF THE PREFERRED EMBODIMENTS

Examples 1 to 4 of the zoom lens are now explained. Sectional lens configurations of these examples at the wide-angle end (a), in the intermediate state (b) and at the telephoto end (c) upon focused on an object point at infinity are shown in Figs. 1 through 4 wherein G1 represents a first lens group, G2 a second lens group, S a